ABSTRACT

[PROBLEMS]

To analyze correlation between a plurality of signals in a transient state.

[MEANS FOR SOLVING THE PROBLEMS]

A multi-signal analyzer (1) includes an AD converter (11) for simultaneously receiving a plurality of time series signals representing physical and chemical phenomena and subjecting the signals to AD conversion, a delay time calculation unit (19) for calculating the delay time between arbitrary two signals x(1) and y(1) input to the AD converter (11), a time axis adjustment unit (39) for advancing or delaying the time axis of one of the arbitrary two signals according to the delay time calculated by the delay time calculation unit (19) to thereby make the two signals to have the same time axis, and a data analyzer (41) for performing analysis such as determining a mutual correlation coefficient for the two signals made to have the same time axis.